

Message: An unexpected error occurred while ray tracing.

Reference Number: **KB-02983**

Last Modified: **October 28, 2024**

The information in this article applies to:



QUESTION

When I try to create a CPU Ray Trace, I receive one of the following messages:

- "#272032345 - An unexpected error occurred while ray tracing."
- "#272032202 - Unable to open ray tracing engine - CPU Ray Tracing will be disabled for this session."

How can I resolve this?

ANSWER





There are a few different reasons for why these messages may occur, including:

- Something plan-specific in the file is stopping the CPU Ray Trace from being able to start.

- Your system is out-of-date or missing a critical update.
- Something running on the system itself is stopping the CPU Ray Trace process from being able to start.

The first step in troubleshooting this behavior is to see if this message occurs in all plans or only specific ones.

To test whether the message occurs in all plans

1. In a new, blank file, navigate to **Build> Wall> Straight Exterior Wall** , then create a simple enclosed rectangular structure.
2. Navigate to **Build> Cabinet> Base Cabinet** , then click to place a single base cabinet against one of the walls in the plan.
3. Select **3D> Create Perspective View> Full Camera** , then click and drag towards the cabinet in the room to create a camera view.
4. Finally, select **3D> CPU Ray Trace** .
 - If this plan ray traces successfully, then you have determined that there is something specific to your earlier file causing the issue with ray tracing.

Please follow the instructions in the "Using the Backup Entire Plan/Layout Tool" resource located in the [Related Articles](#) section below, then attach the file backup to a new case in the [Technical Support Center](#) (<https://www.chiefarchitect.com/support/article/KB-00717/using-the-technical-support-center.html>) for Chief Architect Technical Support to analyze.

- If this plan also will not ray trace successfully without generating an error, then you have determined that there is an issue elsewhere, either with Chief Architect or the system being used. Please follow the instructions below.

The first step in troubleshooting system related issues should be to make sure that your system and Chief Architect are up-to-date. You can check for updates in Chief Architect by selecting **Help> Download Program Updates** from the menu.

If you running an older version of Chief Architect, you may want to check to see that you are running on an operating system that your version of Chief Architect is supported on. To learn more, please see the "Chief Architect Minimum System Requirements" resource in the [Related Articles](#) section below.

To bring your system up-to-date

Installing system updates is not a Chief Architect specific operation so we recommend that if you are using a computer that is maintained by an IT department that you ask them to make sure that your system is up-to-date within the specifications or restrictions that your business or institution require.

Checking for updates can vary based on your operating system. Choose one of the following links to learn how to keep your system up to date.

- [Microsoft Windows \(https://support.microsoft.com/en-us/windows/windows-update-faq-8a903416-6f45-0718-f5c7-375e92dddeb2\)](https://support.microsoft.com/en-us/windows/windows-update-faq-8a903416-6f45-0718-f5c7-375e92dddeb2)
- [Apple macOS \(https://support.apple.com/en-us/108382\)](https://support.apple.com/en-us/108382)

Troubleshooting for Microsoft Windows

If you have ensured that your system is up-to-date and the issue persists, please try the following steps,

Reset TCP/IP or Internet Protocol

The error may be caused by corruption in the TCP/IP stack. Resetting your TCP/IP settings may resolve the issue.

1. Close Chief Architect.

2. On your keyboard, press the **Windows Key** , then type: Command Prompt

3. Once the Command Prompt application appears in the search results window, right-click on it and choose **Run as administrator**.

If prompted by User Account Control to allow the Command Prompt to make changes, click **Yes**.

4. In the Command Prompt window, type: `netsh int ip reset`

5. Press the **Enter** key on the keyboard to execute the command.

Notice that the Command Prompt output recommends that you restart the computer to complete the network reset. Do *NOT* do this yet.

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19045.2846]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\system32>netsh int ip reset
Resetting Compartment Forwarding, OK!
Resetting Compartment, OK!
Resetting Control Protocol, OK!
Resetting Echo Sequence Request, OK!
Resetting Global, OK!
Resetting Interface, OK!
Resetting Anycast Address, OK!
Resetting Multicast Address, OK!
Resetting Unicast Address, OK!
Resetting Neighbor, OK!
Resetting Path, OK!
Resetting Potential, OK!
Resetting Prefix Policy, OK!
Resetting Proxy Neighbor, OK!
Resetting Route, OK!
Resetting Site Prefix, OK!
Resetting Subinterface, OK!
Resetting Wakeup Pattern, OK!
Resetting Resolve Neighbor, OK!
Resetting , OK!
Resetting , OK!
Resetting , OK!
Resetting , OK!
Resetting , failed.
Access is denied.


Resetting , OK!
Resetting , OK!
Resetting , OK!
Resetting , OK!
Resetting , OK!
Resetting , OK!
Resetting , OK!
Resetting , OK!
Restart the computer to complete this action.

C:\Windows\system32>
```

6. Open Chief Architect and attempt a CPU Ray Trace.
 - If you still see the problem, move on to the troubleshooting steps below.
 - If the CPU Ray Trace works, restart the computer, then test the CPU Ray Trace again. If it fails, there may be a third party program installed that is making changes to your TCP/IP stack. Consult Microsoft Support or an IT professional to determine which program may be making that change and how best to proceed.

Reset the WinSock Catalog

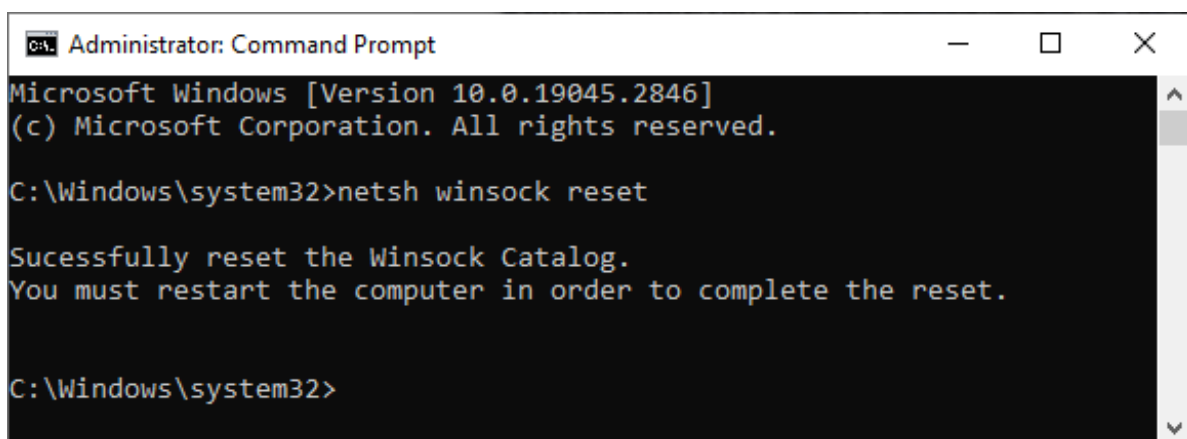
Sometimes, corruption to the winsock.dll can cause problems when Chief Architect attempts to transfer information about the scene to the ray trace engine. Resetting the Winsock library may resolve the issue.

1. Close Chief Architect.
2. On your keyboard, press the **Windows Key** , then type: `Command Prompt`
3. Once the Command Prompt application appears in the search results window, right-click on it and choose **Run as administrator**.

If prompted by User Account Control to allow the Command Prompt to make changes, click **Yes**.

4. In the Command Prompt window, type: `netsh winsock reset`
5. Press the **Enter** key on the keyboard to execute the command.

Notice that the Command Prompt output recommends that you restart the computer to complete the network reset. Do *NOT* do this yet.



```
C:\Windows\system32>netsh winsock reset

Sucessfully reset the Winsock Catalog.
You must restart the computer in order to complete the reset.

C:\Windows\system32>
```

6. Open Chief Architect and attempt a CPU Ray Trace.


- If you still see the problem, move on to the troubleshooting steps below.
- If the CPU Ray Trace works, restart the computer, then test the CPU Ray Trace again. If it fails, there may be a third party program installed that is making changes to your Winsock Catalog. Consult Microsoft Support or an IT professional to determine which program may be making that change and how best to proceed.

Troubleshooting for Apple macOS

There may be a process running in the background on your system which is stopping the information from being sent from Chief Architect to the CPU Ray Trace engine, in which case, you should be able to ensure that this process is disabled by rebooting your Mac system in Safe Mode. Please see the following Apple support article for more information: <https://support.apple.com/en-us/116946> (<https://support.apple.com/en-us/116946>).

ADVANCED TROUBLESHOOTING

Finally, if you continue to experience problems printing after going through all of these steps, please contact our Technical Support department directly, and include all of the following files listed below.

1. If the issue only seems to occur in one particular file, use the **Backup Entire Plan/Layout**  tool to create a folder with a copy of the problem file, along with all referenced files.

See Knowledge Base article: [Using the Backup Entire Plan/Layout Tool to Send Files to Another User](https://www.chiefarchitect.com/support/article/KB-00987/) (<https://www.chiefarchitect.com/support/article/KB-00987/>).



2. Locate and save the program's MESSAGE LOG file.

See Knowledge Base article: [Locating the Message Log](https://www.chiefarchitect.com/support/article/KB-02908/) (<https://www.chiefarchitect.com/support/article/KB-02908/>).

3. Export or save your **SYSTEM INFORMATION**.

See Knowledge Base article: [Retrieving System Information to Send to Technical Support \(https://www.chiefarchitect.com/support/article/KB-01867/retrieving-system-information-to-send-to-technical-support.html\)](https://www.chiefarchitect.com/support/article/KB-01867/retrieving-system-information-to-send-to-technical-support.html).

4. Locate the **RAY TRACER LOG**.

- Select **Edit> Preferences**  if you are on a Windows PC or **Chief Architect> Preferences**  if you are on a Mac.
- On the **FOLDERS** panel, under All Program Paths, click on the **Show** button.
- In the **Program Paths** dialog, select the Hidden User Settings Folder, then click on the **Show in Explorer/Finder** button
- In the folder that displays, open the appropriate **Chief Architect** folder and look for a text file named "Ray Tracer Log.txt."
- Once you have located the file, right-click on it, select **Copy**, then minimize the window and **Paste** the file onto your Desktop.

5. Sign in to the [Technical Support Center \(https://support.chiefarchitect.com/\)](https://support.chiefarchitect.com/) and create a new support case to send to Technical Support.

See Knowledge Base article: [Using the Technical Support Center \(https://www.chiefarchitect.com/support/article/KB-00717/using-the-technical-support-center.html\)](https://www.chiefarchitect.com/support/article/KB-00717/using-the-technical-support-center.html).







6. Give the case a short but descriptive title.

In the text of the case, type a detailed description of the problem, including the exact steps that caused the crash or error to occur, if at all possible.

Click the **Browse** button and attach the **PROJECT BACKUP**, **MESSAGE LOG**, **SYSTEM INFORMATION**, and **RAY TRACER LOG** files to your case, then **Submit** it.

Note: Some of the requested information may identify you, as well as specific information about your computer, but it will also help us determine the source of the problem. Please be assured that any files submitted to Chief Architect Technical Support will be used for troubleshooting purposes only.

Related Articles

-  [Chief Architect Minimum System Requirements \(/support/article/KB-02761/chief-architect-minimum-system-requirements.html\)](/support/article/KB-02761/chief-architect-minimum-system-requirements.html)
-  [Locating the Message Log \(/support/article/KB-02908/locating-the-message-log.html\)](/support/article/KB-02908/locating-the-message-log.html)
-  [Message: Unable to Perform Photon Mapping. \(/support/article/KB-03093/message-unable-to-perform-photon-mapping.html\)](/support/article/KB-03093/message-unable-to-perform-photon-mapping.html)
-  [Retrieving System Information to Send to Technical Support \(/support/article/KB-01867/retrieving-system-information-to-send-to-technical-support.html\)](/support/article/KB-01867/retrieving-system-information-to-send-to-technical-support.html)
-  [Using the Backup Entire Plan/Layout Tool to Send Files to Another User \(/support/article/KB-00987/using-the-backup-entire-plan-layout-tool-to-send-files-to-another-user.html\)](/support/article/KB-00987/using-the-backup-entire-plan-layout-tool-to-send-files-to-another-user.html)
-  [Using the Technical Support Center \(/support/article/KB-00717/using-the-technical-support-center.html\)](/support/article/KB-00717/using-the-technical-support-center.html)



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